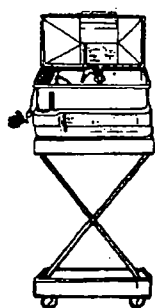
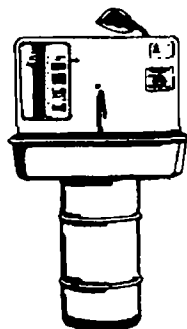


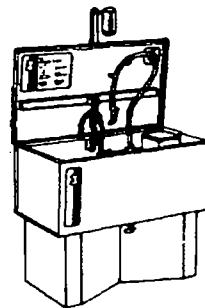
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12/01/90



*Model 14 & 60*



*Model 16 & 30*



*Model 34 & 44, COMS, and  
other*

# *Material Safety Data Sheet*

## *Safety-Kleen 105 Solvent*

### *Part # 6617*



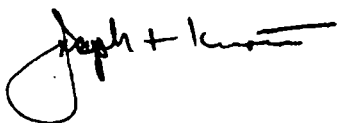
Dear Safety-Kleen Customer,

At Safety-Kleen Corp., our material safety data sheets are more than a requirement to us. They are a commitment to our customers and their employees.

The material safety data sheet is a valuable source of information and should be readily available and compatible with your hazard communication program. With this in mind, we are providing to you, our valued customer, this important information about our products.

We would also like to take this opportunity to thank you for showing your concern for the environment by choosing Safety-Kleen Corp. products and services.

Sincerely,



*Joseph F. Knott*  
*President, Chief Operating Officer*  
*Safety-Kleen Corp.*



# SAFETY-KLEEN 105 SOLVENT

## MATERIAL SAFETY DATA SHEET FOR U.S.A. AND CANADA

### SECTION I -- PRODUCT INFORMATION

Safety-Kleen Corp. - 777 Big Timber Road - Elgin, IL, U.S.A. 60123  
 Safety-Kleen Canada Inc. - 3090 Blvd. Le Carrefour - Suite 300 - Chomedey Laval Quebec, Canada H7T 2J7  
 For Product Technical Information Call 312-694-2700 (U.S.A.);  
 800-363-2260 (Eastern Canada); 514-686-2040 (Western Provinces/Call Collect)

#### 24-HOUR EMERGENCY TELEPHONE

These numbers are for emergency use only. If you desire non-emergency information about this product, please call a telephone number listed above.

#### MEDICAL:

800-752-7869 (U.S.A.)  
 312-942-5969 (CANADA)  
 RUSH POISON CONTROL CENTER  
 CHICAGO, ILLINOIS, U.S.A.

#### TRANSPORTATION:

708-888-4660 (U.S.A.)  
 SAFETY-KLEEN ENVIRONMENT,  
 HEALTH AND SAFETY DEPARTMENT  
 613-996-6666 (CANADA)  
 CANUTEC

**IDENTITY (TRADE NAME):** SAFETY-KLEEN 105 SOLVENT

**SYNONYMS:** PETROLEUM DISTILLATES, PETROLEUM NAPHTHA, MINERAL SPIRITS, STODDARD SOLVENT

**SK PART NUMBER:** 6617

**FAMILY/CHEMICAL NAME:** HYDROCARBON SOLVENT

**PRODUCT USAGE:** SOLVENT FOR CLEANING AND DEGREASING PARTS

### SECTION II -- HAZARDOUS COMPONENTS

NAME	SYNONYM	Wt. %	CAS NO.	OSHA PEL		ACGIH TLV		LD50 <sup>a</sup>	LC50 <sup>b</sup>
				TWA (ppm)	STEL (ppm)	TWA (ppm)	STEL (ppm)		
Parts Washer Solvent (Consists predominantly of C9-C13 Saturated Hydrocarbons)	Mineral Spirits	85.0	64741-41-9	100 **	N.Av.	100 **	N.Av.	> 5000**	3400**
C8+ Aromatics		12.0	Mixture	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.
*Toluene		0.5	108-88-3	100	150	100	150	5000	4000
*Xylene		1.0	1330-20-7	100	150	100	150	4300	5000
*Ethyl Benzene		0.5	100-41-4	100	125	100	125	3500	4000 <sup>c</sup>
*1,1,1 Trichloroethane	Methyl Chloroform	0-0.5***	71-55-6	350	450	350	450	10300	18000
*Perchloroethylene	Tetrachloroethylene	0-0.5***	127-18-4	25	N.Av.	50	200	2629	4000 <sup>c</sup>
Total Chlorinated Solvents		0-1.0***							

N.Av. = Not available.

\* See Section X - Other Regulatory Information

\*\*For Stoddard Solvent

\*\*\*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

<sup>a</sup> Oral-Rat LD50 (mg/kg)

<sup>b</sup> Inhalation-Rat LC50 (ppm/4 hours)

<sup>c</sup> Inhalation-Rat LCLo (ppm/4 hours)

### SECTION III -- PHYSICAL DATA

**PHYSICAL STATE, APPEARANCE AND ODOR:** Combustible liquid, clear, green, with characteristic hydrocarbon odor.

**ODOR THRESHOLD:** Not available.

**BOILING POINT:** 304-435°F (151-224°C).

**VAPOR PRESSURE:** 2 mm Hg at 68°F (20°C).

**FREEZING POINT:** Not available.

**EVAPORATION RATE:** 0.1 (Butyl Acetate = 1).

**VOLATILE:** 99.9%

**VOLATILE ORGANIC COMPOUNDS:** 6.4 to 6.7 lbs/gal; 770 to 800 g/l

**DENSITY:** Not available.

**VAPOR DENSITY:** 4.9 (Air = 1).

**SOLUBILITY IN WATER:** Negligible.

**pH:** Not applicable.

**SPECIFIC GRAVITY:** 0.77 to 0.80 at 60/60°F (16/16°C) (Water = 1).

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available.

**MOLECULAR WEIGHT:** 142 (Approximately).

### SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 105°F (41°C) SETA

**AUTOIGNITION TEMPERATURE:** 473°F (245°C).

**CONDITIONS OF FLAMMABILITY:** Materials must be moderately heated before ignition can occur.

**FLAMMABLE LIMITS IN AIR:** **LOWER:** 0.7 Vol. % **UPPER:** 6.0 Vol. %

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Decomposition and combustion products may be toxic. Heated containers may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition source and flash back. Not sensitive to mechanical impact. Material may be sensitive to static discharge, which could result in fire or explosion.

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical, water (mist only).

**FIRE FIGHTING PROCEDURES -- SPECIAL:** NFPA 704 Rating 0-2-0  
Keep storage containers cool with water spray. Use self-contained breathing apparatus (SCBA).

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition and burning may produce carbon monoxide.

## SECTION V -- REACTIVITY DATA

<b>STABILITY:</b>	Stable under normal temperatures and pressures, and not reactive with water.
<b>INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):</b>	Avoid oxidizing agents, flames, sparks and high temperatures.
<b>HAZARDOUS POLYMERIZATION:</b>	Not known to occur under normal temperatures and pressures.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Normally none.

## SECTION VI -- HEALTH HAZARD DATA AND TOXICOLOGICAL PROPERTIES

**PRIMARY ROUTES OF EXPOSURE:** Eye and skin contact; inhalation.

**EXPOSURE LIMITS:** See Section II.

### **SIGNS AND SYMPTOMS OF EXPOSURE:**

**ACUTE:** *Eyes:* Contact may cause slight to moderate irritation. High vapor concentrations ( > 500 ppm) are irritating to the eyes.

*Skin:* Prolonged or repeated contact tends to remove skin oils, possibly leading to irritation and dermatitis. No significant skin absorption hazard.

*Inhalation (Breathing):* High concentrations of vapor or mist may be irritating to the respiratory tract, cause headaches, dizziness, nausea, impaired coordination, anesthesia and may have other central nervous system effects.

*Ingestion (Swallowing):* Low order of acute oral toxicity. May cause irritation of the throat, nausea, vomiting and symptoms of central nervous system depression. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**CHRONIC:** Prolonged and/or repeated skin contact may cause drying and cracking or dermatitis.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing central nervous system dysfunction may have increased susceptibility to the effects of exposure. Contact with skin may aggravate pre-existing dermatitis.

**CARCINOGENICITY:** IARC classifies chemicals by their carcinogenic risk, including agents that are known, probable, or possible carcinogens. NTP classifies chemicals as either known carcinogens or for which there is a limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Perchloroethylene is listed by IARC as a possible carcinogen and is classified by NTP as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

**OTHER POTENTIAL HEALTH HAZARDS:** The following information is required by Canadian WHMIS regulations. Irritancy is covered in Signs and Symptoms of Exposure in Section VI. There is no known human sensitization or toxicologically synergistic product. Xylene has demonstrated experimental effects for reproductive toxicity, mutagenicity and teratogenicity. Studies indicate Ethylbenzene and 1,1,1-Trichloroethane are experimental teratogens.

## SECTION VII -- EMERGENCY AND FIRST AID PROCEDURES

**EYES:** For direct contact, flush eyes with water for 15 minutes lifting upper and lower lids occasionally. If irritation or redness from exposure to vapors or mists develops, move victim away from exposure into fresh air. Consult physician if irritation or pain persists.

**SKIN:** Remove contaminated clothing. Wash skin twice with soap and water. If irritation or pain develops and persists, consult a physician.

**INHALATION:**  
(Breathing)

Remove to fresh air immediately. Use oxygen if there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary.

**INGESTION:**  
(Swallowing)

If conscious, drink 4 to 8 ounces of water and seek immediate medical attention. DO NOT induce vomiting.

**SECTION VIII – PRECAUTIONS FOR SAFE USE AND HANDLING  
AND PREVENTIVE MEASURES**

**SPILL  
PROCEDURES:**

Remove all ignition sources. Ventilate area and avoid breathing vapors. For large spills, isolate area and deny entry. If possible, contain as a liquid for possible re-refining. Absorb with compatible absorbent material. Shovel into closable container for disposal. Wear protective equipment specified in Section IX. Contain away from surface waters and sewers.

**WASTE DISPOSAL  
METHODS:**

Dispose in accordance with Federal, State, Provincial and local regulations. Contact Safety-Kleen regarding recycling or proper disposal.

**HANDLING  
PRECAUTIONS:**

Avoid contact with eyes, skin or clothing. Use in well ventilated area and avoid breathing vapors or mists. Keep away from heat, sparks and flames.

**SHIPPING AND  
STORING  
PRECAUTIONS:**

Keep container tightly closed when not in use and during transport. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, grind or expose containers to flame or other sources of ignition.

**PERSONAL  
HYGIENE:**

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Launder contaminated clothing and clean protective equipment before reuse.

**SECTION IX – CONTROL MEASURES AND OTHER PREVENTIVE MEASURES**

**EYE  
PROTECTION:**

Where there is likelihood of spill or splash, wear chemical goggles and faceshield. Contact lenses should not be worn.

**PROTECTIVE  
GLOVES:**

Use nitrile or neoprene gloves to prevent contact with skin.

**RESPIRATORY  
PROTECTION:**

Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapors or mists exceeds applicable exposure limit. Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters. A self-contained breathing apparatus (SCBA) is required for large spills and emergencies. Selection and use of respiratory protective equipment should be in accordance in the U.S.A. with OSHA General Industry Standard 29 CFR 1910.134 and in Canada with CSA Standard Z94.4-M1982.

**ENGINEERING  
CONTROLS:**

Provide local exhaust or general dilution ventilation needed to maintain concentrations of vapors or mists below applicable exposure limits. Where explosive mixtures may be present, systems safe for such locations should be used.

**OTHER PROTECTIVE  
EQUIPMENT:**

Wear appropriate solvent-resistant boots, apron or other protective clothing where spills and splashes are possible. A source of clean water should be available in work areas for flushing the eyes and skin.

**SECTION X – OTHER REGULATORY INFORMATION**

**DOT PROPER SHIPPING NAME:**

PETROLEUM NAPHTHA

**DOT CLASS:**

COMBUSTIBLE LIQUID

**DOT ID NUMBER:**

UN1255

**SARA TITLE III:**

Product contains toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Toxic constituents are listed with an asterisk in Section II of this Material Safety Data Sheet.

Product poses the following physical and/or health hazards as defined in 40 CFR 370.3 (Sections 311, 312 of SARA Title III):

Immediate (Acute) Health Hazard  
Delayed (Chronic) Health Hazard  
Fire Hazard

**TDGA:**

NAPHTHA, PETROLEUM  
CLASS 3.3, UN1255, P.G. III

**WHMIS CLASSIFICATION:**

Class B3, Combustible Liquid;  
Class D2A, Other Toxic Effects, Very Toxic Material;  
Class D2B, Other Toxic Effects, Toxic Material

<b>SECTION XI -- PREPARATION INFORMATION</b>
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**PREPARED BY:** Product MSDS Coordinator

**FORM PART NO.** 82310

**ORIGINAL ISSUE DATE:** July 20, 1989

**REVISED:** December 14, 1990

**SUPERSEDES:** March 12, 1990

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.

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SK 105 Solvent; Revision 12/90; Form Part No. 82310

